

~~Application Serial No. 06/178,107 filed 08/14/80 was also a Continuation-in-Part of Serial No. 23,849 filed 03/26/79, now U.S. Patent No. 4,279,011.~~

RE OATH

To reflect the above-identified substitution, a REVISED OATH is provided herewith.

IN THE CLAIMS

To reflect further considerations with respect to improved claim structure and language, the following new claims are presented.

21. An electronic ballast for a gas discharge lamp, comprising:

a source operative to provide a power line voltage at a set of power line terminals;

rectifier means connected with the power line terminals and operative to provide a DC voltage at a set of DC terminals; and

inverter means connected with the DC terminals and operative to provide an inverter voltage at a pair of inverter terminals; the inverter voltage being characterized by: (i) alternating periodically at a fundamental frequency; (ii) having a fundamental cycle period including a first and a second half-cycle; (iii) during its first half-cycle, existing for a first duration at a first substantially constant voltage level; (iv) during its second half-cycle, existing for a second duration at a second substantially constant voltage level; (v) the first duration being substantially equal to the second duration; (vi) the first duration being longer than one fourth of the duration of the first half-cycle; and (vii) the first duration being substantially shorter than half the duration of the fundamental cycle period.

22. The electronic ballast of claim 21 wherein a gas discharge lamp is indeed connected in circuit with the inverter terminals.

23. An electronic ballast for a gas discharge lamp, comprising:

a source operative to provide a power line voltage at a set of power line terminals;

rectifier means connected with the power line terminals and operative to provide a DC voltage at a set of DC terminals; and

inverter means connected with the DC terminals and operative to provide an inverter voltage at a pair of inverter terminals; the inverter voltage having the following characteristics: (i) alternating periodically at a fundamental frequency; (ii) having a fundamental cycle period including a first and a second half-cycle, the complete fundamental cycle period being divided into 360 degrees; (iii) during its first half-cycle, existing for a first duration at a first substantially constant voltage level; (iv) during its second half-cycle, existing for a second duration at a second substantially constant voltage level; (v) the first duration being substantially equal to the second duration; (vi) the first duration being longer than 45 degrees; and (vii) the first duration being substantially shorter than 180 degrees.

24. The electronic ballast of claim 23 wherein: (i) the fundamental frequency is equal to, or higher than, about 10 kHz; and (ii) the first duration does not exceed 165 degrees.

To cover the additional fee for the new claims, a check (#3869) for \$100.00 is enclosed herewith.



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